

LPGS SERIES-TRUE Hybrid GEL Battery

LPGS2-400 (2V400AH)

Specification

Nominal Voltage	2V		
Nominal Capacity(10HR)	400.0AH		
Dimensions	Length	210±3mm (8.27 inches)	
	Width	175±2mm (6.89 inches)	
	Container Height	330±3mm (12.99 inches)	
	Total Height (with Terminal)	339±3mm (13.35 inches)	
Approx Weight	Approx 25.7kg (56.67lbs)		
Terminal	T11		
Container Material	ABS		
Rated Capacity	414.0 AH/20.7A	(20hr, 1.80V/cell, 25°C/77°F)	
	400.0 AH/40.0A	(10hr, 1.80V/cell, 25°C/77°F)	
	343.0 AH/68.6A	(5hr, 1.75V/cell, 25°C/77°F)	
	302.4 AH/100.8A	(3hr, 1.75V/cell, 25°C/77°F)	
	226.1 AH/216.1A	(1hr, 1.60V/cell, 25°C/77°F)	
Max. Discharge Current	3200A (5s)		
Internal Resistance	Approx 0.7mΩ		
Operating Temp. Range	Discharge	:-15~50°C (5~122°F)	
	Charge	: 0~40°C (32~104°F)	
	Storage	:-15~40°C (5~104°F)	
Nominal Operating Temp. Range	25±3°C (77±5°F)		
Cycle Use	Initial Charging Current less than 100.0A. Voltage	2.4V~2.5V at 25°C(77°F)Temp. Coefficient -5mV/°C	
	Standby Use	No limit on Initial Charging Current Voltage 2.25V~2.3V at 25°C(77°F)Temp. Coefficient -3mV/°C	
Capacity affected by Temperature	40°C (104°F)	103%	
	25°C (77°F)	100%	
	0°C (32°F)	86%	
Self Discharge	LPGS series batteries may be stored for up to 6 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.		



Applications

- ◆ Tele-communication central station (wired or cellular)
- ◆ Power system communication, military communication, etc.
- ◆ Network communication including: data transmission, television signal transmission, etc.
- ◆ Uninterruptable Power System (UPS- for Telecom)



Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V(Time)	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	453.6	400.0	360.0	297.8	236.1	190.9	118.8	95.5	75.4	64.8	55.5	44.7	38.1	20.3
1.80V/cell	536.3	454.4	400.8	319.6	248.4	200.3	125.3	100.4	78.8	68.1	58.0	46.5	40.0	20.7
1.75V/cell	604.8	499.2	432.0	338.4	261.2	201.7	130.5	100.8	81.4	68.6	59.4	47.3	40.3	21.0
1.70V/cell	649.2	532.8	462.1	355.1	269.7	202.8	134.3	101.8	83.2	69.1	60.4	48.1	40.6	21.3
1.67V/cell	673.4	547.3	462.1	363.7	277.0	208.3	136.4	102.5	84.1	69.5	60.9	48.4	40.9	21.3
1.60V/cell	724.9	578.5	494.0	379.0	286.8	216.1	140.1	103.6	85.6	70.6	61.9	49.1	41.5	21.6

Constant Power Discharge (Watts) at 25 °C (77°F)

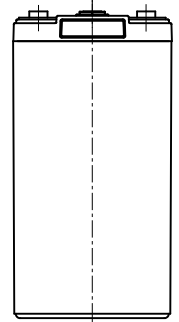
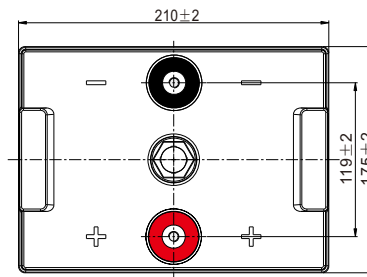
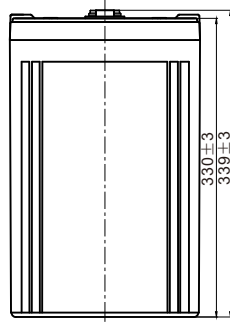
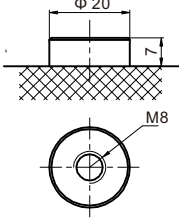
F.V(Time)	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	852.8	756.8	684.2	569.3	454.1	368.7	230.6	185.8	147.5	127.4	109.4	88.5	75.7	40.2
1.80V/cell	992.2	847.6	752.8	605.5	474.0	384.5	242.1	194.1	153.5	133.1	113.9	91.7	79.2	41.1
1.75V/cell	1101.3	918.1	802.2	635.2	494.7	385.9	251.3	195.3	158.2	133.6	116.2	93.2	79.7	41.7
1.70V/cell	1164.2	968.7	849.6	661.4	508.1	386.7	257.6	195.9	161.1	134.1	118.1	94.5	80.3	42.1
1.67V/cell	1195.0	985.7	842.6	671.7	518.7	394.9	260.5	196.5	162.5	134.7	118.8	95.0	80.7	42.2
1.60V/cell	1255.5	1021.3	888.2	692.8	532.3	406.3	265.8	198.5	164.6	136.3	120.2	96.1	81.9	42.7

Specifications subject to change without notice.

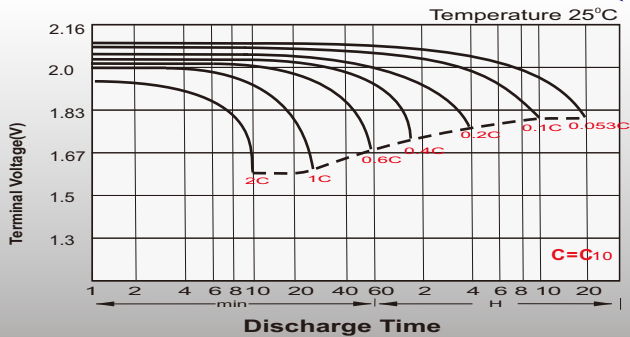
Dimensions

T11 Terminal

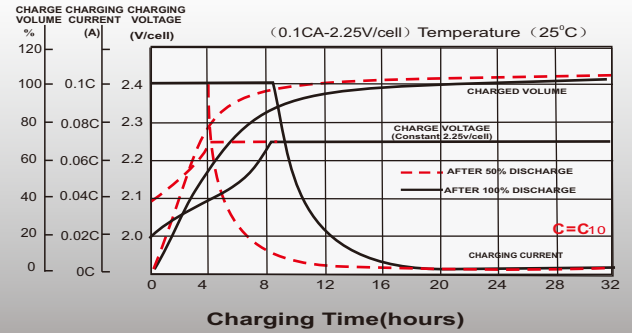
Unit: mm



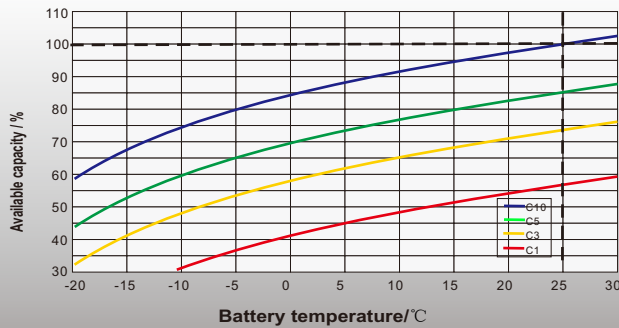
Discharge Characteristics



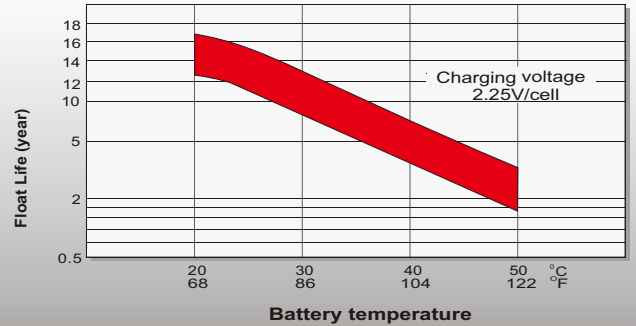
Float Charging Characteristics



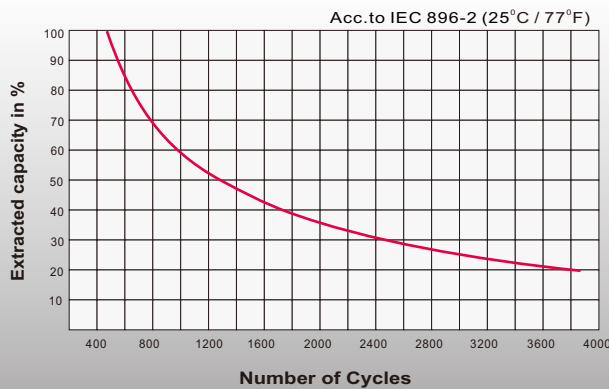
Temperature Effects in Relation to Battery Capacity



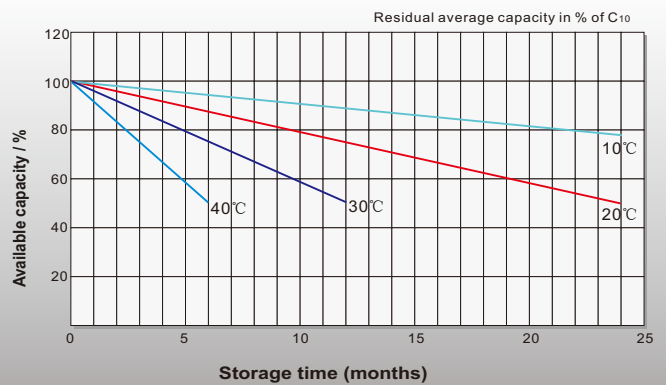
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity VS. Storage Time



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